

# PWR3XX SERIES 2 WATTS UNREGULATED

## DC/DC CONVERTERS

# TWO CHANNEL, HIGH ISOLATION

#### **FEATURES**

- Barrier Leakage current 100% tested at 240vac
- 3000V ISOLATION TEST VOLTAGE
- single or dual unregulated outputs

- Wide operating temperature RANGE:
   -40°C to +100°C
- INPUT and OUTPUT filtering
- six-sided shielding

### **DESCRIPTION**

The PWR3XX Series offers a large selection of unregulated 2W DC/DC converters for use in such diverse applications as process control, telecommunications, portable equipment, medical systems, airborne and shipboard electronic circuits, and automatic test equipment.

Thirty-six models allow the user to select input voltages of 5 VDC to 48 VDC and output voltages of 5, 12, 15,  $\pm$ 5,  $\pm$ 12, or  $\pm$ 15 VDC.

Surface-mounted devices and manufacturing processes are used in the PWR3XX Series to provide the user a device that is environmentally rugged. The use of surface-mount technologies also gives the PWR3XX Series superior isolation voltage. Each PWR3XX Series unit is tested with the dielectric withstand voltage methods of UL544, VDE750, and CSA C22.2.

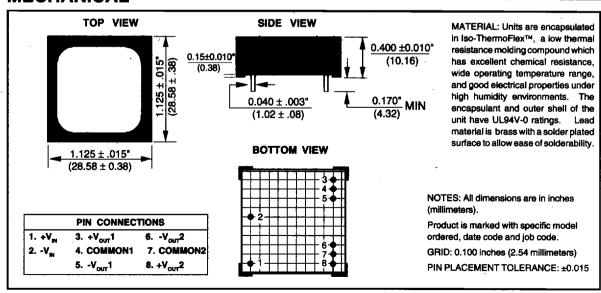
#### **ABSOLUTE MAXIMUM RATINGS**

Internal Power Dissipation
Output Short-Circuit DurationContinuous to Output Common
Lead Temperature (soldering, 10 seconds max)+300°C

#### ORDERING INFORMATION

Device Family	PWR	3XX	ŒΗ
PWR Indicates DC/DC Converter Model Number			
Selected From Table Above Screening Option	-		

#### **MECHANICAL**



# **ELECTRICAL SPECIFICATIONS**

Specifications typical at T<sub>a</sub> = +25°C, nominal input voltage, and rated output current unless otherwise specified.

	N <b>ONIN</b> AL	RATED	RATED	MAXIMUM	
	INPUT	OUTPUT	OUTPUT	INPUT	
	VOLTAGE	VOLTAGE	CURRENT	CURRENT	
MODEL	(VDC)	(VDC)	(MA)	(MA)	
PWR300	5	5	200	690	
PWR301	5	12	84	690	
PWR302	5	15	67	690	
PWR303	5	±5	±100	690	
PWR304	5	±12	±42	690	
PWR305	5	±15	±34	690	
PWR306	12	5	200	265	
PWR307	12	12	84	265	
PWR308	12	15	67	265	
PWR309 PWR310 PWR311	12 12 12 12	±5 ±12 ±15	±100 ±42 ±34	265 265 265 265	
PWR312	15	5	200	205	
PWR313	15	12	84	205	
PWR314	15	15	67	205	
PWR315	15	±5	±100	205	
PWR316	15	±12	±42	205	
PWR317 PWR318	15 24	±15 5	±34	205	
PWR319 PWR320	24 24	12 15	200 84 67	130 130 130	
PWR321	24	±5	±100	130	
PWR322	24	±12	±42	130	
PWR323	24	±15	±34	130	
PWR324 PWR325 PWR326	28 28 28	5 12 15	200 84 67	115 115	
PWR327 PWR328	28 28	±5 ±12	±100 ±42	115 115 115	
PWR329	28	±15	±34	115	
PWR330	48	5	200	70	
PWR331 PWR332	48 48 48	12 15	84 67	70 70. 70	
PWR333	48	±5	±100	70	
PWR334	48	±12	±42	70	
PWR335	48	±15	±34	70	

NOTE: Other input to output voltage options may be available. Please consult factory.

 $\begin{array}{ll} \textbf{COMMON SPECIFICATIONS} \\ \textbf{Specifications typical at T}_{A} = +25^{\circ}\text{C}, \ \text{nominal input voltage, rated output current unless otherwise noted.} \end{array}$ 

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
INPUT Voltage Range Input Ripple Current	I <sub>LOAD</sub> = Rated Load		30	±20% of Rated Input	mAp-p
ISOLATION Rated Voltage Test Voltage Resistance Capacitance Leakage Current	Input to Output, Channel to Channel 60Hz, 60 seconds V <sub>iso</sub> ≈ 240VAC	1000 3000	10 25	10	VDC Vpk GΩ pF μA
OUTPUT Voltage Setpoint Accuracy Voltage Ripple Voltage Line Regulation	Rated Load, Nominal V <sub>IN</sub> No Load, V <sub>OUT</sub> = 5V Models No Load, V <sub>OUT</sub> = 12V Models No Load, V <sub>OUT</sub> = 15V Models No Load, I <sub>LOAD</sub> = Rated Load		50 1	±5 7 15 18	% VDC VDC VDC mV, p-p %/%
TEMPERATURE Specification Operation Storage		-25 -40 -40	+25	+85 +100 +110	ဂံဂံဂံ
GENERAL Switching Frequency Package Weight			200 16		kHz 9